PROJECT REFERENCE NO.	SHEET NO.
R-4903	UC-7

DESIGNED BY: BCH
DRAWN BY: BCH
CHECKED BY: BCH
APPROVED BY: JLT
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL SEAL 30499 ENGINEER BOBBY C HOUSER
DocuSigned by: Chad Houser 11/5/2014
UTILITY CONSTRUCTION PLANS ONLY

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO: C-0275

SEE SHEET UC-13 FOR WL-5 PROFILE
SEE SHEET UC-14 FOR SL-1 PROFILE
SEE SHEET UC-15 FOR SL-2 PROFILE

NAD 83/2001

MATCH LINE -L- STA. 54+50 SEE SHEET 6 (UC-6)

MATCH LINE -L- STA. 68+00 SEE SHEET 8 (UC-8)

ABANDON 94 LF OF 8" UITILITY PIPE

PROPOSED 82 LF OF 8" SANITARY GRAVITY SEWER

TIE TO EXISTING MANHOLE

RETAIN EXISTING

ABANDON 172 LF OF 8" UTILITY PIPE

ABANDON 140 LF OF 8" UTILITY PIPE

BY-20

BEGIN CONSTRUCTION
-SRI- STA 20+90.00

-L-
PI Sta 70+56.07
Δ = 12° 37' 08.6" (RT)
D = 1° 25' 56.6"
L = 880.98'
T = 442.28'
R = 4,000.00'
SE = SEE PLANS

-SRI-
PI Sta 17+38.32
Δ = 8° 44' 57.4" (RT)
D = 1° 00' 00.0"
L = 874.93'
T = 438.32'
R = 5,729.58'
SE = SEE PLANS

PI Sta 22+72.95
Δ = 78° 29' 13.8" (RT)
D = 47° 44' 47.3"
L = 164.38'
T = 98.02'
R = 120.00'
SE = SEE PLANS

JESSIE O INMAN
DB 355 PG 614
DB 629 PG 325

END C/A FENCE

PROP 45° HORIZ. BEND
-L- STA. 64+97.77 LT 191.5'

PROP 45° HORIZ. BEND
-L- STA. 64+45.62 LT 156.7'

PROP. 12" VALVE - 1 EA

14 CY OF CLASS B CONCRETE FOR ENCASING UTILITY LINES

RETAIN EXISTING

ADJUST MANHOLE

BEGIN CONC. ENCASEMENT
SL-2 STA. 0+30
12" THICK

END CONC. ENCASEMENT
SL-2 STA. 0+95
12" THICK

ABANDON 93 LF OF 8" UTILITY PIPE

REM UT MH

PROPOSED 311 LF OF 8" SANITARY GRAVITY SEWER

SMH B-1 SL-2
PROP. 4' DIA.UTILITY MANHOLE - 1 EA.

PROPOSED 155 LF OF TRENCHLESS INSTALLATION OF 12" IN SOIL

PROPOSED 379 LF OF 12" WATER LINE

ABANDON 372 LF OF 12" UTILITY PIPE

ABANDON 427 LF OF 8" UTILITY PIPE

H-PILE PIERS - 6 EA.

PROPOSED 211 LF OF AERIAL 8" SANITARY GRAVITY SEWER

BLADEN COUNTY BOARD OF EDUCATION

END APPROACH SLAB
-L- STA 67+93.00

GRADE EXIST. ROADWAY EMBANKMENT TO EL 40 SEE CROSS SECTIONS

REMOVE EXIST. BRIDGE

-SRI- POT Sta. 23+78.94 =
-DRVI- POT Sta. 10+00.00 =
-L- POT Sta.64+45.00

END C/A FENCE
+90.00 -L-
100'
75'

-DRVI- PC Sta. 11+01.33

-DRVI- PT Sta. 11+42.88

+25.00 35'
+50.00 35'
+75.00 20'
+75.00 30'
+83.00 90' 103'
+14.00 91' 75'

REMOVE Ex 30" RCP

END CONSTRUCTION
-DRVI- STA 11+75.00

-DRVI- POT Sta. 11+84.01
BEARING BACK = N 68° 05' 46.9" E

-DRVI- PC Sta. 10+30.89

-DRVI- PT Sta. 10+56.06
BEARING AHEAD =
S 64° 17' 12.9" E

-L- PC Sta. 66+13.79

CLASS I RIP RAP BANKS ONLY
32 Tons Rip Rap
67 Sq. Yds
Geotextile

BEGIN BRIDGE
-L- STA 66+64.00

END BRIDGE
-L- STA 67+69.00

-DRVI-
PI Sta 10+43.59
Δ = 19° 13' 34.7" (RT)
D = 76° 23' 39.7"
L = 25.17'
T = 12.70'
R = 75.00'
SE = SEE PLANS

PI Sta 11+23.39
Δ = 47° 37' 00.2" (LT)
D = 114° 35' 29.6"
L = 41.55'
T = 22.06'
R = 50.00'
SE = SEE PLANS

BLADEN COUNTY
DB 283 PG 821

BLADEN COUNTY
PB 10 PG 009
DB 190 PG 046

SAMUEL B LEAKE,JR
DB 345 PG 203

ANTHONY D.LEAKE
DB 299 PG 121

THE COUNTY OF BLADEN
DB 189 PG 59
DB 270 PG 80

DENISE TAYLOR BRIDGERS
DB 624 PG 622

PROP. 5" MONO. CONC. ISLAND (KEYED-IN)

N 6 29 12.4" E

UTILITY OWNERS THIS PROJECT:

1) BLADEN COUNTY
UTILITY: WATER
CONTACT: RANDY GARNER
(910)862-6996

2) TOWN OF ELIZABETHTOWN
UTILITY: WATER AND SEWER
CONTACT: MIKE HAYES
(910)862-2035 EXT.226

DETAIL L
STANDARD BASE DITCH
(Not to Scale)
Natural Ground, Natural Grade, 3:1, D, d, B
Min. D= 1.5 Ft.
Max. d= 1.5 Ft.
B= 2.0 Ft.
*When B is < 6.0'
Excavation: Est. 300 cu yds
Type of Liner= PSRM Est. 220 sq. yds
FROM STA. 21+60 TO STA. 23+00 -SR1- Rt

DETAIL M
RIP RAP AT EMBANKMENT
(Not to Scale)
3', 1.5', Ditch Grade, Filter Fabric
Type of Liner= 7 TONS,CL I Rip-Rap
Filter Fabric= 15 sy
STA. 67+10 -L- Rt

DETAIL J
LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, d, B, b, 1'-Ft., Fill Slope
Min. D= 1.0 Ft.
Max. d= 1.5 Ft.
B= 2.0 Ft.
b= 5.0 Ft.
Type of Liner= PSRM
STA. 64+83 TO STA. 67+13 -L- Rt
STA. 58+50 TO STA. 63+75 -L- Lt
STA. 57+00 TO STA. 58+00 -L- Lt

EXISTING TIMBER PILES TO BE CUT OFF AT EXISTING GROUND LOCATION AND BE INCIDENTAL TO THE CLEARING AND GRUBBING ON THIS PROJECT

5/14/99

11/5/2014
9:23:56 AM
R-4903_ut_(rdy sht7)_UC(ut1 const Sht7)_psh.dgn